

HMOX1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP11240c**Specification**

HMOX1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [P09601](#)**HMOX1 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 3162**Other Names**

Heme oxygenase 1, HO-1, HMOX1, HO, HO1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HMOX1 Antibody (Center) Blocking peptide - Protein Information**Name** HMOX1**Synonyms** HO, HO1**Function**

[Heme oxygenase 1]: Catalyzes the oxidative cleavage of heme at the alpha-methene bridge carbon, released as carbon monoxide (CO), to generate biliverdin IXalpha, while releasing the central heme iron chelate as ferrous iron (PubMed:7703255, PubMed:11121422, PubMed:19556236). Affords protection against programmed cell death and this cytoprotective effect relies on its ability to catabolize free heme and prevent it from sensitizing cells to undergo apoptosis (PubMed:20055707).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type IV membrane protein; Cytoplasmic side

Tissue Location

Expressed at higher levels in renal cancer tissue than in normal tissue (at protein level)

HMOX1 Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

HMOX1 Antibody (Center) Blocking peptide - Images

HMOX1 Antibody (Center) Blocking peptide - Background

Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family.

HMOX1 Antibody (Center) Blocking peptide - References

Wu, M.M., et al. Toxicol. Appl. Pharmacol. 248(3):226-233(2010) Bolisetty, S., et al. J. Am. Soc. Nephrol. 21(10):1702-1712(2010) Bao, W., et al. PLoS ONE 5 (8), E12371 (2010) :Wu, M.M., et al. J. Biomed. Sci. 17, 70 (2010) :Wang, X., et al. PLoS ONE 5 (8), E11934 (2010) :